

ATTACHED TO C-103
BRAVO OPERATING COMPANY
LANDLADY LEASE
Sec. 8, T12S, R32E

17. Describe Proposed or Completed Operations.

1. Moved in and rigged up well service unit. Pumped 45 bbls of brine down tubing to kill well. Pulled tubing and packer. Rigged up Rotary Wireline Company and set BP at 11000'. Capped with 20' of cement.
2. Rigged up Rotary Wireline Co. Perfed 8722-8724' with 4 shots. Pressured up on 5 1/2" to 1750 psi, could not break circulation.
3. Rigged up Welex to run cement bond log from 9500-2500'. Found good cement to 9370'. Had bonding scattered up hole, bonding at 8729-8730'. Perfed 8670-8671' with 4 holes out of phase. Ran in hole with tubing and packer. Packer set at 8644'. Broke circulation at 1-1/2 BPM. Circulated 60 bbls brine water.
4. Went in hole with squeeze retainer to 8647'. Set and tested same. Ran 500 gal of mud flush. Cemented 8-5/8 x 5-1/2" annulus with 250 sx Class "H" cement. Had full circulation throughout job. Left 2 bbls cement in tubing. Pulled out of retainer. Reversed cement out of tubing and displaced hole with 2% KCl water. Pulled tubing. WOC. Ran temp survey. Found top of cement 7665'.
5. Rigged up Rotary Wireline perforators. Perforated 5-1/2" casing from 8618-8626' with 9 shots. Went in hole with 2 jts tail pipe and Baker Model "R" Double Grip packer.
6. Rigged up Western Co. Pumped 250 gal acid to perfs at 8618-8626'. Pulled 2 stands and reversed 3 bbls acid back into tubing. Set packer at 8550'. Tied onto tubing. Formation started taking acid. .4 bpm at 5100 psi, .8 bpm at 5200 psi. Pumped 250 gal away. ISIP: 5000 psi, 72 BLWTR.
7. TP: 260 psi, FL: 3700' FS. On first swab run recovered 100% oil. Swabbed total of 63 bbls fluid. 27 BLW + 36 bbls formation fluid. Estimate 60% oil (20 bbls oil plus 16 bbls formation water). Unseated packer. Equalizing well. Flowed estimated 5 bbls oil. Pulled tubing and packer out of hole. SD
8. Went back in hole with 31.5' bull plug and mud anchor, 3.12 perf nipple, 1.1' SN, 2 jts tubing, tubing anchor and 278 jts tubing. Prep to place well on pump.
9. Ran rods, set pumping unit, placed well on production on 24 hrs. pump test. Rec 11 BO + 60 BW. GOR 210:1.